

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): An ultrasonographic equipment comprising:

an ultrasonic transducer unit in which ultrasonic transducer elements for scanning ultrasonic beam are arranged in a state of an array;

a transducer unit oscillating motor for making the ultrasonic transducer unit perform oscillation scanning in the direction crossing the scanning direction of the ultrasonic beam;

an oscillation angle detection means for detecting an oscillation angle of the ultrasonic transducer unit;

an ultrasonic transmission means for exciting the ultrasonic transducer element to form the ultrasonic beam;

an ultrasonic receiving means for forming ultrasonic beam from ultrasonic echo received by the ultrasonic transducer element and converting the ultrasonic beam to visible image data;

a three-dimensional image processing means for forming a three-dimensional image based on the oscillation angle

detected by the oscillation angle detection means and image data outputted from the ultrasonic receiving means; and
an image display means for displaying the three-dimensional image.

Claim 2 (original): An ultrasonographic equipment comprising:

an ultrasonic transducer unit in which ultrasonic transducer elements for scanning ultrasonic beam are arranged in a state of an array;

a transducer unit oscillating motor for making the ultrasonic transducer unit perform oscillation scanning in the direction crossing the scanning direction of the ultrasonic beam;

an oscillation angle detection means for detecting an oscillation angle of the ultrasonic transducer unit;

an ultrasonic transmission means for exciting the ultrasonic transducer element to form the ultrasonic beam;

an ultrasonic receiving means for forming ultrasonic beam from ultrasonic echo received by the ultrasonic transducer element and converting the ultrasonic beam to visible image data;

an oscillation angle information adding means for adding information of the oscillation angle detected by the oscillation angle detection means to image data outputted from the ultrasonic receiving means;

a three-dimensional image processing means for forming a three-dimensional image based on image data and the added oscillation angle information outputted from the oscillation angle information adding means; and
an image display means for displaying the three-dimensional image.

Claim 3 (currently amended): The ultrasonographic equipment according to claim 1 ~~or claim 2~~, wherein the three-dimensional image processing means forms a three-dimensional image based on angle information obtained by smoothing the information of the oscillation angle detected by the oscillation angle detection means.

Claim 4 (original): An ultrasonographic equipment comprising:

an ultrasonic transducer unit which two-dimensionally scans a fault plane of a test body, and is driven to be oscillated in the direction orthogonal to a scanned face of the two-dimensional scanning;

a scanning conversion means for recording a receiving signal obtained by the two-dimensional scanning by the ultrasonic transducer unit in a frame memory to create two-dimensional image data, reading out the two-dimensional image data, and outputting the two-dimensional image data;

a delay means for delaying position information in the oscillation direction of the ultrasonic transducer unit by processing time of the scanning conversion means; and

a three-dimensional image processing means for creating a three-dimensional image from the two-dimensional image data of a plurality of frames sequentially outputted from the scanning conversion means based on the position information in the oscillation direction delayed by the delay means.

Claim 5 (original): An ultrasonographic equipment comprising:

an ultrasonic transducer unit which two-dimensionally scans a fault plane of a test body, and is driven to be oscillated in the direction orthogonal to a scanned face of the two-dimensional scanning;

a scanning conversion means for recording a receiving signal obtained by the two-dimensional scanning by the ultrasonic transducer unit in a frame memory to create two-dimensional image data, writing position information in the oscillation direction of the ultrasonic transducer unit in the frame memory, reading out the two-dimensional image data and the position information, and outputting the two-dimensional image data and the position information; and

a three-dimensional image processing means for creating a three-dimensional image from the two-dimensional image data of a plurality of frames and the position information in the oscillation direction which are sequentially outputted from the scanning conversion means.

Claim 6 (new): The ultrasonographic equipment according to claim 2, wherein the three-dimensional image processing means forms a three-dimensional image based on angle information obtained by smoothing the information of the oscillation angle detected by the oscillation angle detection means.